

Appendix J**MARITIME/COMMAND AND CONTROL Naval Flight Officer (NFO) Training at NAS Pensacola, FL.****1.0 GENERAL.**

1.1 Training Site. Appendix J specifies the requirements for UMFO Training at NAS Pensacola, FL. UMFO training will be provided to U.S. military personnel, foreign military personnel, government personnel, Instructor Pilots (IPs) and Instructor NFOs as required.

1.2 Training devices to be utilized for instruction are:

1.2.1 Device 2B51 Multi-Crew Simulator. Although still in the design phase, the 2B51 Multi-Crew Simulator (MCS) devices are contracted to provide Instructors Under Training (IUT) and student NFO/UMFO training in a simulated and generic multiple crewed aircraft. The device will train students in sensor operations modeled after E-2, P-3, P-8 and E-6 platform tasks. The MCS will familiarize students with concepts in advanced maritime and command and control operations. The MCS is designed to demonstrate and introduce such tasks as advanced overwater navigation, HF and SATCOM communications, link 16-like data architecture operations, surface search tracking, ISAR and SAR operations, air intercept tracking and control, electro-optical/infra-red sensor operations, unclassified electronic warfare, basic acoustic operations, complex coordination of the battle space techniques, multi-crew operations concepts, and weapons control. The MCS consists of 3 stations that each have a student, instructor and observer console. The stations can operate independently or simultaneously in a given scenario.

1.2.2 Device Table.

| Device Number | Device Type | # of Devices | Standard Mission Length | Brief/Debrief Times (hrs) | Instructor to student ratio |
|----------------------|--------------------|---------------------|--------------------------------|----------------------------------|------------------------------------|
| 2B51 | MCS | 2 | 1.5 or 3.0 | 1.0-1.5/1.0 | 1/3 |

Note: MCS1 is scheduled for delivery and acceptance testing in Apr of 2013, and MCS2 in Sep of 2013. The IUT is expected to start in Jul 2014, IOC is October 2014.

1.3 Government Furnished - Classrooms.

1.3.1 Typical Classroom Instructional Objectives. The objective of the classroom ground training is to provide the student with sufficient training to enable performance in flight and emergency procedures that are taught/conducted in the follow-on stages of simulator flight training.

| Bldg # | Room # | Student Capacity | Equipment | Instructor to Student Ratio | Normal Availability Hours (M-F) |
|---------------|---------------|-------------------------|------------------|------------------------------------|--|
| 3258 | 121-LRC | 20 | TIMS | 1/20 | 0700-1900 |
| 3258 | 122-IEC | 18 | TIMS | 1/20 | 0700-1900 |
| 3258 | 123-LEC | 20 | TIMS | 1/22 | 0700-1900 |
| 3258 | 124-LEC | 20 | TIMS | 1/20 | 0700-1900 |
| 3258 | 221-LEC | 24 | TIMS | 1/24 | 0700-1900 |

| | | | | | |
|------|---------|-------|---------|------|-----------|
| 3258 | 222-LRC | 20 | TIMS | 1/20 | 0700-1900 |
| 3258 | 224-IEC | 18 | TIMS | 1/18 | 0700-1900 |
| 3258 | 201-IEC | 24 | TIMS | 1/32 | 0700-1900 |
| 3258 | 203-IEC | 24 | TIMS | 1/29 | 0700-1900 |
| 3258 | 223-LEC | 24 | TIMS | 1/24 | 0700-1900 |
| 3258 | 202-LRC | 20 | TIMS | 1/20 | 0700-1900 |
| 3258 | 204-LRC | 20 | TIMS | 1/20 | 0700-1900 |
| 3258 | 208-ICW | 20 | TESTING | 1/20 | 0700-1900 |
| 3258 | 216-ICW | 20 | TESTING | 1/20 | 0700-1900 |
| 1853 | MC2-IEC | *TBD* | TIMS | TBD | 0700-1900 |
| 1853 | MC2-IEC | *TBD* | TIMS | TBD | 0700-1900 |

NOTE: LRCs are manned during scheduled events only. Additional IEC classrooms in Bldg/Hangar 1853 are required to support future MC2 academics and CAIs.

1.3.2 Typical LRC/CAI Classroom Instruction. The instruction in the LRC/CAI Classroom will closely resemble monitoring a learning center. The contractor shall provide a dedicated lead instructor to monitor students during scheduled events. The instructors are not required to provide subject related explanations unless requested by the student/Instructor Under Training (IUT). Instructor(s) shall use the Training Integrated Management System (TIMS) to ensure that students are properly entered in the system and that all lessons are recorded properly, including the duration of the lesson.

1.4 CIS Schedule / Primary Responsibility Parameters.

Note: For the Pensacola site, one stepladder (a single task under a single CLIN) will be used for the three curricula described in Appendices H (Primary/Intermediate NFO), I (Advanced Strike/Fighter(Adv S/F) NFO), and J (Maritime Command and Control(MC2) NFO). This shared HPW "pool" supports the flexibility required for efficient NFO training throughput. Using the 830 HPW stepladder (HPW Table and Note (2) below showing 570/180/80 HPW splits between curricula), the sharing will work as described, treated on a weekly basis only and using whole hours only (round up):

a. Case 1, maximum Primary/Intermediate HPW: Primary/Intermediate curriculum (App. H) can schedule its HPW split of 570 hours plus can add - for the week - up to 20% of each of the other curricula (from Adv S/F (App. I) $180 \times 20\% = 36$ hours and from MC2 (App. J) $80 \times 20\% = 16$ hours) for a maximum of $(570 + 36 + 16 =) 622$ hours for that week, leaving Adv S/F at $(180 - 36 =) 144$ and MC2 at $(80 - 16 =) 64$. These adjusted HPW splits (622/144/64) are treated as the authorized HPW for that week on the three appendices (scheduled work) and daily maximum scheduling rules apply.

b. Case 2, minimum Primary/Intermediate HPW: 570 minus - for the week - up to 5% of each of the other curricula (9 hours to Adv S/F and 4 hours to MC2) for a minimum HPW split of 557, leaving Adv S/F at 189 and MC2 at 84.

These 2 cases define the boundaries: For the 830 HPW stepladder, Primary/Intermediate (App. H) can have any weekly HPW between 557 and 622, Adv S/F (App. I) between 144 and 189 and MC2 (App. J) between 64 and 84. The weekly sum must add to 830.

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Premium Time offset - Weekly Premium Time (PT) computations shall be made against the non-adjusted split HPW, e.g. max Primary/Intermediate (App. H) use of PT would be 570 HPW x 20% = 114 PT hours. Any adjusted increase (as above) to the HPW split will count against the PT request the government may make for that week, i.e. if the government schedules as case 1, above, the 52 hours added to Primary/Intermediate (App. H) are subtracted from the allowable 20% PT for that week. 114 possible PT hours - 52 added hours from the "pool" = 62 PT hours allowed that week. The case 1 split PT for Adv S/F (App. I) and MC2 (App. J) would be unaffected (36 and 16 PT hours respectively), but the government, at this time, can conceive of no scenario where it would shift weekly HPW out of a curriculum but then add PT. As always, the contractor can agree to provide PT at levels above what is required, if able.

| Hourly Stepladder per Week* | HPW Splits | Min/Max HPW | Device Availability | Window of CI Operations ** |
|-----------------------------|---|---|---------------------------|----------------------------|
| 1350 (6) | Primary: 530 Adv S/F: 420 MC2 : 400 | Primary: 489/694 Adv S/F: 336/441 MC2 : 320/420 | 0630-1830 M-F (12 hrs) | 0600-1900 M-F (13 hrs) |
| 1230 (5) | Primary: 530 Adv S/F: 420 MC2 : 280 | Primary: 495/670 Adv S/F: 336/441 MC2 : 224/294 | 0630-1830 M-F (12 hrs) | 0600-1900 M-F (13 hrs) |
| 1150 (4) | Primary: 530 Adv S/F: 420 MC2 : 200 | Primary: 499/654 Adv S/F: 336/441 MC2 : 160/210 | 0630-1830 M-F (12 hrs) | 0600-1900 M-F (13 hrs) |
| 990 (3) | Primary: 530 Adv S/F: 380 MC2 : 80 | Primary: 507/622 Adv S/F: 304/399 MC2 : 64/84 | 0630-1830 M-F (12 hrs) | 0600-1900 M-F (13 hrs) |
| 910 (2) | Primary: 530 Adv S/F: 300 MC2 : 80 | Primary: 511/606 Adv S/F: 240/315 MC2 : 64/84 | 0630-1830 M-F (12 hrs) | 0600-1900 M-F (13 hrs) |
| 830 (1) | Primary: 570 Adv S/F: 180 MC2 : 80 | Primary: 557/622 Adv S/F: 144/189 MC2 : 64/84 | 0630-1830 M-F (12 hrs) | 0600-1900 M-F (13 hrs) |

Notes: All dates listed below are estimates. Any delays in courseware or simulator delivery dates will cause delays in the below stepladder increases.

(1) CSD - June 2013: 830 HPW - HPW split = 570 HPW Primary (App. H) + 180 HPW Adv S/F (App. I) + 80 HPW MC2 (App. J).

(2) Oct 2013: Increase to 910 HPW - HPW split = 530 HPW Primary (App. H) + 300 HPW Adv S/F (App. I) + 80 HPW MC2 (App. J). The government anticipates that any additional training labor costs due to this (and subsequent) increase(s) (3 & 4, below, or any other) in Adv S/F (App. I) instructional requirements will be borne by the contractor (i.e. training new instructors will not be funded through site HPW nor will it be accomplished using government instructors). The Site Manager, COR and CNATRA GTO will coordinate this instructor training and corresponding training device utilization (on a not-to-interfere basis). If COMS Premium Time is required to allow necessary training device operating windows, the COR will coordinate through CNATRA N7 and N3.

(3) Jan 2014: Increase to 990 HPW - HPW split = 530 HPW Primary (App. H) + 380 HPW Adv S/F (App. I) + 80 HPW MC2 (App. J).

(4) Apr 2014: Increase to 1150 HPW - HPW split = 530 HPW Primary (App. H) + 420 HPW Adv S/F (App. I) + 200 HPW MC2 (App. J). The government

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anticipates that any additional training labor costs due to this increase in MC2 (App. J) instructional requirements will be borne by the government (i.e. training new instructors will be funded through site HPW or Additional Instruction hours, or will be accomplished using government instructors). Costs of subsequent increases (5 & 6, below, or any other) will be the responsibility of the contractor. The Site Manager, COR and CNATRA GTO will coordinate this instructor training and corresponding training device utilization (on a not-to-interfere basis). If COMS Premium Time is required to allow necessary training device operating windows, the COR will coordinate through CNATRA N7 and N3.

(5) Sep 2014: Increase to 1230 HPW - HPW split = 530 HPW Primary (App. H) + 420 Adv S/F (App. I) + 280 MC2 (App. J).

(6) Oct 2014: Increase to 1350 HPW - HPW split = 530 HPW Primary (App. H) + 420 HPW Adv S/F (App. I) + 400 MC2 (App. J).

* Hours of instruction per day will be an even distribution of weekly hours above to a five-day work week within the HPW split (either non-adjusted or adjusted), with up to 10% variation required. For example, if 500 is the instructional hours per week contracted for in the Primary/Intermediate (Appendix H) curriculum, the average hours per day would be 100. Given the maximum amount of variation allowed, the contractor may be required to instruct up to 110 hours on a given day in that curriculum (with anything over 110 being premium time). Also, a total of 500 hours cannot be exceeded for the week without use of premium time. In the event additional instruction hours are needed in excess of the exercised stepladder, the Government will utilize premium time.

** Window of CI Operations may be adjusted per Addendum B, paragraph 5.4. The Window of CI Operations may change during the course of the task order.

1.5 Government provided contractor administrative spaces.

| | |
|--|----------|
| Instructor Lounge | Room 107 |
| Student Brief/Debrief Space | Room 108 |
| Student Brief/Debrief Space | Room 110 |
| Student Brief/Debrief Space | Room 111 |
| Site Manger/Asst. Site Manager/Scheduler | Room 112 |

2.0 INSTRUCTOR QUALIFICATIONS AND CERTIFICATIONS.

2.1 Qualifications. Multi-Crew Simulator Contract Instructor (CI) Qualifications:

a. A NFO, or service equivalent, with 800 flying hours in the P-3, EP-3, P-8, E-2 or similar multi-crew platform (E-3, S-3, etc.).

b. A minimum of one deployed tour in the P-3, EP-3, P-8, E-2 or similar multi-crew platform (E-3, S-3, etc.), and a bachelor's degree.

c. Parity between maritime and command and control platforms is desirable.

d. Advanced qualifications and the most current fleet experience shall be heavily weighted in the selection process.

- For example, Weapons Tactics Instructor, Topgun or Air Wing Training Instructor, Fleet Replacement Squadron Instructor, Weapons School Instructor, Advanced Mission Commander Course, or other advanced training programs.

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e. The contractor may request waivers from the Government regarding any of the above qualifications for an individual on a case by case basis. The COR through coordination with the GTO will decide whether to approve or disapprove such a request.

2.2 Advanced Maritime/Command and Control (MC2) Initial Cadre Support:

a. Due to the special circumstances of the MC2 program, the government requires Contract Instructor support for the establishment a Course of Instruction, CI training development, several simulator duties (listed below) and setting the conditions necessary for the contractor to be prepared to instruct SNFO at the IOC of the program. The level at which CIs will instruct academics and simulators events in this advanced program is unprecedented in the TRACOM. For that reason the Initial Cadre Support will set the conditions required to teach Advanced MC2 students in the future. To prepare for that end state the first instructors in the MC2 program must possess the qualifications listed in the MCS CI qualifications paragraph plus have a strong operational or instructional background with in-depth knowledge of advanced NFO training, the Navy curriculum development process, and specific instructional experience as an instructor in undergraduate NFO training. The Initial Cadre tasks are listed in paragraph 4.6 below.

2.3 Certifications. A CI must successfully complete the applicable NATOPS open book, closed book, and boldface exams. A CI must understand the applicable flight mission, crew procedures, and tactics. The CI shall complete the stage exam, if any, for each stage in which the CI instructs and successfully pass a stage check given during an applicable student event with the CI instructing and the check instructor monitoring the event. These qualifications expire on the last day of that month plus one year. A CI must understand the applicable flight mission, crew procedures and tactics.

2.4 Re-certification. After initial certification, all CI's must complete the requirements of paragraph 2.3 annually.

3.0 Initial Training.

3.1 The Government will provide the following training as necessary and applicable. Training may be provided in the following areas:

- a. Standard Operating Procedures (SOPs);
- b. Course Rules;
- c. NATOPS;
- d. Aircraft Systems;
- e. Weapons Employment;
- f. Weapon System Integration;
- g. Syllabus Standardization;
- h. Grading Criteria;
- i. Basic Simulator Operating Procedures (SOPs);
- j. Flight Instructor Training Course (FITC).

4.0 REQUIREMENTS.

4.1 The contractor shall be responsible for conducting the MCG simulator events (and associated IUT events) in the following table:

| SIM Events | Avg. Class Size | Duration | Events Per Student | Frequency | Current/ New |
|--|--------------------------------|---|-----------------------------------|--------------------|-------------------------|
| Maritime Command & Control Device 2B51 / 1542.168 | | | | | |
| MCS Fam/Nav C2101-C2104 | 6 | 3.5 per event Brief: 1.0 Event: 1.5 Debrief: 1.0 | 4 | Every Two Weeks | New/Future |
| MCS Sensors C2201-C2205 | 6 | 3.5 per event Brief: 1.0 Event: 1.5 Debrief: 1.0 | 5 | Every Two Weeks | New/Future |
| MCS Link C2301-C2303 | 6 | 3.5 per event Brief: 1.0 Event: 1.5 Debrief: 1.0 | 3 | Every Two Weeks | New/Future |
| MCS Fleet Ops C2401-C2405 | 6 | 3.5 per event Brief: 1.0 Event: 1.5 Debrief: 1.0 | 5 | Every Two Weeks | New/Future |
| Fleet Ops Check Ride C2590 | 6 | 5.5 per event Brief: 1.5 Event: 3.0 Debrief: 1.0 | 1 | Every Two Weeks | New/Future |
| MCS ComNav N2101-N2104 | 6 | 3.5 per event Brief: 1.0 Event: 1.5 Debrief: 1.0 | 4 | Every Two Weeks | New/Future |
| MCS ComNav Check Ride N2290 | 6 | 3.5 per event Brief: 1.0 Event: 1.5 Debrief: 1.0 | 1 | Every Two Weeks | New/Future |

Note: Estimated IOC for future MC2 2B51 simulator events is October 2014.

4.2 The contractor shall be responsible for conducting the MCG classroom events (and associated IUT events) in the following table:

| Academic Events | Avg. Class Size | Duration | Frequency | Current/ New |
|--|-----------------|--------------------|-----------------|--------------|
| Maritime Command & Control / 1542.168 | | | | |
| MC2 CORE | 6 | 120 Hours (approx) | Every Two Weeks | New/Future |
| MC2 COMMON NAV | 6 | 29 Hours (approx) | Every Two Weeks | New/Future |

4.4 Other duties/responsibilities. See Addendum B, paragraph 4.1.3.

4.5 Student Training Material. The CI is responsible for ensuring that the content of instruction he provides is appropriate to all current and implemented instructional materials and CNATRA Instructions/Notices. All NFO/UMFO and IUT training material, as required, is available at Book Issue in Griffith Hall. The Wing STAN division normally will be tasked with making sure the contractor has received the latest training materials prior to their implementation.

4.6 CIS Platform Specific Primary Responsibilities. Refer to Addendum B, paragraph 4.1.1. Additionally, the MC2 initial cadre will be tasked with the accomplishment of the following additional required duties:

- a. Conduct review of MC2 courseware, and early lesson development.
- b. Assist in the development of the simulator scenarios, simulator acceptance, and courseware development of the MC2 program.
- c. Assist the MC2 Integrated Project Team in simulator and courseware development.
- d. Assist in the validation of courseware once delivered.
- e. Assist in contract deliverables in context to Course of Instruction necessary to be prepared for the start of the IUT estimated in Apr 14, and student course IOC estimated in Oct 2014.

4.7 CIS Platform Specific Additional Support Responsibilities. All of Addendum B paragraph 4.1.3.

4.8 CIS Platform Specific Collateral Responsibilities. Refer to Addendum B, paragraph 4.1.4.

5.0 CIS SCHEDULING - TECHNICAL/TRAINING DATA. Ground School lectures are scheduled by the Wing Academic Training Officer/Wing Ground Training Officer and sent to the Contractor's Scheduling desk. Simulators and post Ground School lectures are scheduled by the Squadron Schedules Officer and sent to the Contractor's scheduling desk. It is in the best interest of the government to work with the contractor, when possible, to ensure efficient utilization of simulator and CI assets. This may require coordination between the various unit schedulers within the various Wings and the contractor schedulers in order to effect the most efficient use of these assets.

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NOTE: Unless the contractor agrees in advance, the contractor is only responsible for providing one schedule per day. If the contractor agrees to produce advanced schedules they will not be held responsible for deviations beyond their control.

5.1 CIS Scheduling Authority. The squadron's designated officer(s) who is appointed by the squadron's Commanding Officer and has the authority to develop and approve the schedule (ground/simulator/flights). All CIS tasking or changes that might result in premium time must be coordinated with the Wing Academic Training Officer/Wing Ground Training Officer.

5.1.1 CIS PROPOSED SCHEDULE. The Government will provide the Contractor a proposed CIS schedule on the second to last Government working day preceding the first day of the period covered by the schedule. The daily CIS schedule may be changed by the Government scheduling authority no later than (NLT) 1500 on the working day preceding a training day provided such CIS falls within the CIS parameters in each Appendix. Daily scheduled CIS events may be changed without notice, provided the CI assets required are the same as those that were originally required /scheduled for that training day (i.e., Government change cannot require the Contractor to increase the number of CIs, the Hours-per-Day and/or Window of CI Operation originally scheduled for CIs for that day unless the Contractor Site Manager agrees to the change). Under conditions of limited trainer availability (modifications, inspections, downtime, etc.), at the discretion of the COR, the instruction hours of the trainer may be extended, thereby, requiring the extension of the CIS at the discretion of the COR so that the instruction requirements are satisfied.

5.1.2 Weekly Planning Estimate. The government will provide the contractor an estimated weekly simulator instruction plan on or before 1200 on the second to last working day of the preceding week. This plan will reflect known holidays expected to be observed by government personnel or other anticipated periods of stand-down, known changes in the simulator instructional schedule planned, all known make-up of lost training or additional training planned and an estimate of ground training events (simulator and classroom) required each day. The normal NATRACOM work year includes safety stand-down days during which instructors shall be required to participate as scheduled by the Scheduling Authority.